

LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

MISSOURI AGGREGATE & CONCRETE

Pursuant to "The Land Reclamation Act," RSMo, 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of
limestone in the state of Missouri. The extent of the

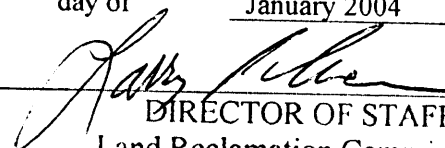
Proposed mining operation(s) will be on eight acres, more or less.

The locations of the operation(s) under this permit is/are as follows: Renewal

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Harrison	01	64N	27W	8	0	8	Site #1	0669

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

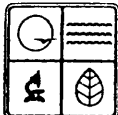
IN WITNESS WHEREOF I have hereunto set my hand this 20th day of January 2004


DIRECTOR OF STAFF
Land Reclamation Commission

Permit No. 0706
Effective Date 01/20/2004
Expiration Date 01/15/2005

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES MISSOURI LAND
RECLAMATION COMMISSION

P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL <u>Missouri Aggregate & Concrete</u>		DATE <u>1-3-04</u>	
ADDRESS <u>1111 74th</u>	CITY <u>Cohen</u>	STATE <u>MO</u>	ZIP CODE <u>65245</u>
CONTACT PERSON <u>L. L. Cook</u>		TELEPHONE NUMBER <u>573-474-5820</u>	

FEES: COMPLETE SECTION I OR SECTION II

SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:

1. To compute the site fee complete the information below:

SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month that the site will be operated during the permit year	For sites operated less than six months per permit year pay \$150 For sites operated six months or more per permit year pay \$300
1. <u>Site #1</u>	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ <u>150</u>
2.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
3.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
4.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
5.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
6.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
7.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
8.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
9.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
10.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
TOTAL SITE FEE		\$

2. Acreage Fee \$5 X 8 number of acres bonded \$ 40

3. Annual Permit Fee \$ 500

4. Total Fee (Add totals from 1, 2 and 3) \$ 640

NOTE: If Total Fee exceeds \$2,500.00 then pay only \$ 2,500

SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:

1. Annual Permit Fee \$ 300

SIGNATURE OF APPLICANT: <u>L. L. Cook</u>	TITLE	DATE <u>1-16-04</u>
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Appeared before me this 16 day of January, 2004, Louis Lee Cook
to me personally known, who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSEER SEAL	STATE OF <u>Missouri</u>	COUNTY (OR CITY OF ST. LOUIS) <u>Boone</u>
	SUBSCRIBED AND SWORN BEFORE ME, THIS <u>16</u> DAY OF <u>January</u> YEAR <u>2004</u>	
	NOTARY PUBLIC SIGNATURE <u>Sherry Lantz</u>	MY COMMISSION EXPIRES <u>1-4-04</u>
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <u>Sherry Lantz</u>	
USE RUBBER STAMP IN CLEAR AREA BELOW. SHERRY LANTZ Notary Public - Notary Seal State of Missouri County of Boone Commission Expires January 4, 2004		
FOR DEPARTMENT USE ONLY. APPROVED BY <u>[Signature]</u>	DATE APPROVED <u>1-14-04</u>	PERMIT NUMBER <u>0706</u>
		EXPIRATION DATE <u>1-15-05</u>



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

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To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER Site #1		PERMIT NUMBER 706
COMPANY NAME Missouri Aggregate & Concrete		
COUNTY Harrison	1/4 SECTION NE	SECTION 1
TOWNSHIP T64N	RANGE R27W	ACRES 8 (Long-Term 30 ac)
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) N/A		
MINERAL COMMODITY Limestone	ESTIMATED TONS/YEAR (FOR GRAVEL SITES) N/A	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Charlotte E. Cook		
ADDRESS P.O. Box 7480		
CITY Columbia	STATE Missouri	ZIP CODE 65205
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT 11-20-95
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) Charlotte E. Cook		
ADDRESS P.O. Box 7480		
CITY Columbia	STATE Missouri	ZIP CODE 65205
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input checked="" type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT 11-20-95
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		
NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.		



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

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P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: January 1, 2010

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DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

An approximate 4.5 acres, situated within the 3⁴/₄-acre Long-term Mine Plan boundary, was previously mined in the 1930's and never reclaimed. The area is shaped like a wishbone which trends N-S starting at about the middle of the northern Long-term Mine Plan boundary and then trends ENE-WSW starting at about the middle of the 3⁴/₄-acre plan. Steep cliff faces define the perimeter of the abandoned excavation pit. The floor of the old pit is devoid of vegetation and fairly level. Heavily vegetated hills with an estimated 35-40% slope border the old pit to the north, south and east. The western boundary of the old pit is bordered by a level area with approximately the same relative relief as the pit floor.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

3

INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Vegetation and trees will be removed via a bulldozer. The topsoil on site is poor or absent and estimated at three inches. Because the topsoil is only three inches deep, an additional 9 inches of subsoil will be removed to obtain a total of 12 inches of soil for replacement. The total 12 inches of topsoil and subsoil will be removed using scrapers.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Scrapers will deposit the soil in stockpiles on the far north edge of the eastern permit boundary under application. Stockpiles will be shaped and seeded with grass to protect from wind and water erosion. As acreage from the northwest and southwest portions of the Long-term Mine Plan is added to the permit area, scrapers will deposit the soil in stockpiles adjacent to the western-most edge of the abandoned excavation pit. As with the current 8-acre area undergoing permitting, these soil stockpiles will be shaped and seeded with grass to protect from wind and water erosion.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

see attached

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C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

none

PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

see attached

YES NO

☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐☒

Will any excavation start at or within fifty feet (50') of any property line?
(NOTE: If the answer is "yes", a safety barrier may be needed.)

REVISED 1-3-96

B. SPOIL

Describe Methods and Location of Spoil Placement and Disposal

Permit Area

Overburden removed during initial excavating activity in the proposed permit area will be removed by bulldozer and utilized to dam a settling pond outside the southwest corner of the Long-term Mine Plan. Per 10CSR40-10.050(4)(B)4, the settling pond will be built to Missouri SCS Ponds 378 standards. Additional spoils will be stockpiled in the southwest portion of the permit area as the overlying Winterset Member is removed. Backfilling with spoil in the permit area will commence when removal of the underlying Bethany Falls Member is initiated. As excavation of the Bethany Falls Member proceeds south from the northern permit boundary, spoils will automatically be used to backfill the northern mined-out portion of the pit. All overburden will be graded to traversable slopes before topsoil is replaced and seeded.

Long-term Mine Plan Area

Acreage will be added first from the southeast corner of the Long-term Mine Plan. Procedures for removal and storage of spoil will be the same as discussed for the permit area. As mining of the underlying Bethany Falls Member proceeds northwest, spoils will automatically be used to backfill the southeast mined-out portion of the pit. All overburden will be graded to traversable slopes before topsoil is replaced and seeded.

As acreage is added from the rest of the Long-term Mine Plan area procedures for removal and storage of spoil will be the same as discussed for the permit area. As mining of the underlying Bethany Falls Member proceeds northwest from the eastern cliff face remaining from excavation in the permit area, backfilling of mined-out areas will only be implemented in a 300-foot-wide area trending along the southern boundary of the Long-term Mine Plan Area and then a 200-foot-wide area trending along the western boundary. Spoil will automatically be placed in the southeast, 300-foot-wide mined-out portion of the pit and then proceed again starting at 200 feet from the western boundary of the Long-term Mine Plan. This overburden will be graded to traversable slopes before topsoil is replaced and seeded. The interior area of the Long-term Mine Plan will be reclaimed as a water impoundment following requirements of 10CSR40-10.050(9).

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PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

Describe Location and Orientation of Pit, if not Clear on Site Maps

Permit Area

Initial, new excavation will begin at the cliff face positioned at the southern perimeter of the east leg of the abandoned pit. The upper Winterset Member will be mined proceeding south to the permit boundary and then proceed southwest until removal of the overlying member is completed for the southwest leg of the permit area. Continued mining of the Winterset Member will then proceed east from the cliff face remaining from the initial mining activities and then proceed north until completion. Shale will then be removed and mining of the underlying Bethany Falls Member will begin at the northern permit boundary and then proceed south, then southwest, until completion.

The nearest public road is 100 feet north of the permit area and the closest property line is 55 feet east.

Long-term Mine Plan Area

Most of the acreage in the Long-term Mine Plan area that is not part of the abandoned excavation pit or marked for current permitting are presently part of the Federal Conservation Reserve Program (CRP). Land in the southeast corner of the Long-term Mine Plan area will expire from CRP auspices first and therefore be permitted first in future amendments. Excavation of the overlying Winterset Member will proceed southeast from the current permit boundary under consideration and then proceed northwest for removal of the underlying Bethany Falls Member.

Acreage from the southwest one-fourth of the Long-term Mine Plan area will then be permitted for removal of the Winterset Member then the area from the northwest one-fourth. Mining of the Bethany Falls Member will then proceed west for the rest of the area starting from the western boundary of the currently proposed permit area.

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RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1

#1

PURPOSE OR LAND USE

Pasture

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B. SEEDING OR PLANTING TIME

Fall (August 1 - Sept. 30)
Spring (March 15 - May 15)
Spring (3/15 - 6/1) RRF 1-3-96

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

During the first optimum seeding period RRF 1-3-96 following topsoil replacement seed mix will be broadcast and harrowed. No trees or shrubs will be planted.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
orchard grass red sweet clover RRF 1-3-96	4 28 lbs/acre RRF 1-3-96 5 lbs/acre	N/A	N/A
why sweet clover			

VEGETATION MIX #2

B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT

NTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

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ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

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B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Mined-out portions of the Long-term Mine Plan area (to include the eight acres currently under permit consideration) which are intended for future pasture land will be filled with spoil and graded to gentle slopes of approximately 30%. An estimated 11-acre area to be positioned in the middle of the Long-term Mine Plan will be reclaimed as a water impoundment *per requirements*

df 10CSR 40-10.050(9)

*ARF
1-3-96*

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Grading will be completed as designated areas of the pit advances and as spoil is placed in the mined-out portions. Final grading will be completed within one year of permit expiration on all mined-out portions scheduled for pasture.

REPLACEMENT OF TOPSOIL

Topsoil will be replaced to a uniform depth of 12 inches, and disced to reduce compaction. Topsoil will be replaced on all mined-out portions marked for pasture within one year of permit expiration.

REVEGETATION

All topsoil areas will be seeded during the first optimum seeding period following topsoil replacement.

Seed in the fall too!

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

12

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

Water impoundments (for wildlife, agricultural, or development)

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ESTIMATED ACRES:

23 (to include all 8 acres under permit application)

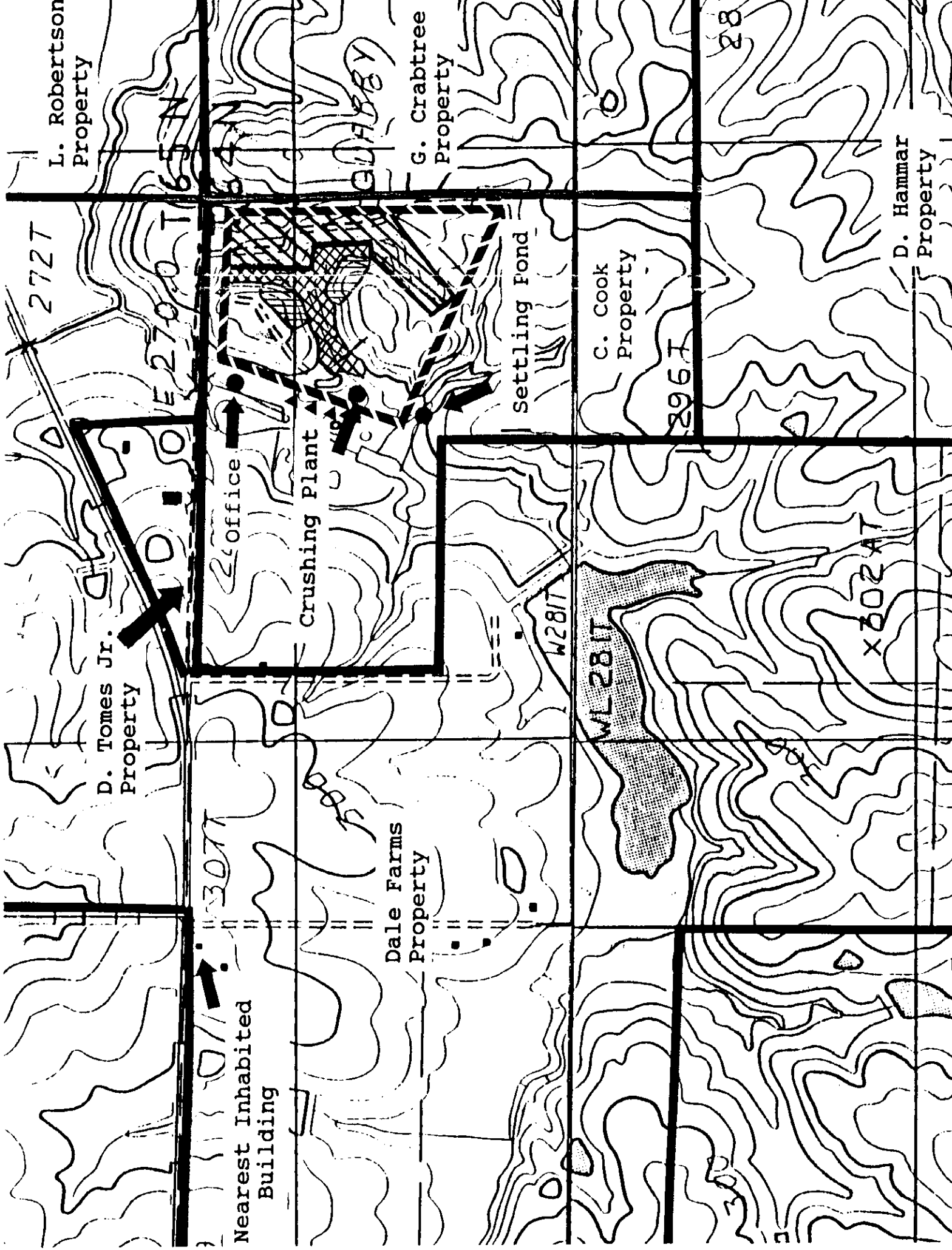
11

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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SIGNATURE OF APPLICANT <i>Charlatta E. Cook</i>		TITLE Owner	DATE <i>Dec. 15-1995</i>
NOTARY PUBLIC EMBOSSEER SEAL	STATE Missouri	COUNTY (OR CITY OF ST. LOUIS) Harrison	
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>15th</i> DAY OF <i>December</i> 19 <i>95</i>		USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE <i>Janet Ury</i>	MY COMMISSION EXPIRES <i>4-24-96</i>	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>Janet Ury</i>		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) MEC, P.C.		DATE APPROVED <i>1-15-96</i>	PERMIT NUMBER <i>706</i>



D. Tones Jr.
Property

L. Robertson
Property

Nearest Inhabited
Building

Office

Crushing Plant

Dale Farms
Property

G. Crabtree
Property

Settling Pond

C. Cook
Property

D. Hammar
Property